

EmployeeDetail table

	EmployeeID	FirstName	LastName	Salary	JoiningData	Department	Gender
1	1	Vikas	Ahlawat	600000.00	2013-02-15 11:16:28.290	IT	Male
2	2	nikita	Jain	530000.00	2014-01-09 17:31:07.793	HR	Female
3	3	Ashish	Kumar	1000000.00	2014-01-09 10:05:07.793	IT	Male
4	4	Nikhil	Shama	480000.00	2014-01-09 09:00:07.793	HR	Male
5	5	anish	kadian	500000.00	2014-01-09 09:31:07.793	Payroll	Male

ProjectDetail table

	ProjectDetailID	EmployeeDetailID	ProjectName
1	1	1	Task Track
2	2	1	CLP
3	3	1	Survey Managment
4	4	2	HR Managment
5	5	3	Task Track
6	6	3	GRS
7	7	3	DDS
8	8	4	HR Managment

1. Write down the query to create employee table with identity column ([EmployeeID])

```
CREATE PROC SP__Employee_Table
AS
BEGIN
    Create Table EmployeeDetail(
        EmployeeID int primary key identity(1,1),
        FirstName nVARCHAR(20) NOT NULL,
        LastName nVARCHAR(20) NOT NULL,
        Salary Money NOT NULL,
        JoiningData Datetime NOT NULL,
        Department nVARCHAR(10) NOT NULL,
        Gender nVARCHAR(10) NOT NULL,
    );
END;
Go
exec SP__Employee_Table
```

 Messages
Command(s) completed successfully.

2. How to set foreignkey relationship using query (set EmployeeID column of ProjectDetail table as a foreignkey)

```
CREATE PROC SP__Relation1
AS
BEGIN
    ALTER TABLE ProjectDetail ADD Constraint fk_Emp_Proj
        foreign key(EmployeeDetailID)
        references EmployeeDetail(EmployeeID);
END;
Go
exec SP__Relation1
```

 Messages
Command(s) completed successfully.

3. Write query to get only "FirstName" column from "EmployeeDetail" table

```
CREATE PROC SP__Q3
AS
BEGIN
    Select FirstName From EmployeeDetail;
END;
Go
exec SP__Q3
```

	FirstName
1	Vikas
2	nikita
3	Ashish
4	Nikhil
5	anish

4. Select employee detail whose name is vikas or start with latter 'a'

```
CREATE PROC SP__Q4
AS
BEGIN
    Select * From EmployeeDetail WHERE FirstName = 'Vikas' or FirstName Like 'a%';
END;
Go
exec SP__Q4
```

	EmployeeID	FirstName	LastName	Salary	JoiningData	Department	Gender
1	1	Vikas	Ahlawat	600000.00	2013-02-15 11:16:28.290	IT	Male
2	3	Ashish	Kumar	1000000.00	2014-01-09 10:05:07.793	IT	Male
3	5	anish	kadian	500000.00	2014-01-09 09:31:07.793	Payroll	Male

5. Select employee detail whose FirstName contains 'k'

```
CREATE PROC SP__Q5
AS
BEGIN
    Select * From EmployeeDetail WHERE FirstName Like '%k%';
END;
Go
exec SP__Q5
```

	EmployeeID	FirstName	LastName	Salary	JoiningData	Department	Gender
1	1	Vikas	Ahlawat	600000.00	2013-02-15 11:16:28.290	IT	Male
2	2	nikita	Jain	530000.00	2014-01-09 17:31:07.793	HR	Female
3	4	Nikhil	Shama	480000.00	2014-01-09 09:00:07.793	HR	Male

6. Select employee detail whose FirstName not "Vikas","Ashish",and "Nikhil".

```
CREATE PROC SP__Q6
AS
BEGIN
    Select * From EmployeeDetail WHERE FirstName NOT IN('Vikas','Ashish','Nikhil');
END;
Go
exec SP__Q6
```

	EmployeeID	FirstName	LastName	Salary	JoiningData	Department	Gender
1	2	nikita	Jain	530000.00	2014-01-09 17:31:07.793	HR	Female
2	5	anish	kadian	500000.00	2014-01-09 09:31:07.793	Payroll	Male

7. Select first name from "EmployeeDetail" table prefixed with "Hello".

```
CREATE PROC SP__Q7
@prefix nVARCHAR(20)
AS
BEGIN
    Select (@prefix+FirstName) AS [Name] From EmployeeDetail;
END;
Go
exec SP__Q7 'Hello '
```

	Name
1	Hello Vikas
2	Hello nikita
3	Hello Ashish
4	Hello Nikhil
5	Hello anish

8. Get employee details from "EmployeeDetail" table whose Salary between 500000 and 600000

```
CREATE PROC SP__Q8
@start Money,
@end Money
AS
BEGIN
    Select * From EmployeeDetail Where Salary Between @start and @end;
END;
Go
exec SP__Q8 500000,600000
```

	EmployeeID	FirstName	LastName	Salary	JoiningData	Department	Gender
1	1	Vikas	Ahlawat	600000.00	2013-02-15 11:16:28.290	IT	Male
2	2	nikita	Jain	530000.00	2014-01-09 17:31:07.793	HR	Female
3	5	anish	kadian	500000.00	2014-01-09 09:31:07.793	Payroll	Male

9. Select Second highest salary from "employeeDetail" table

```
Create PROC SP__Q9
@n int
AS
BEGIN
    exec('Select top 1 Salary
    From (
        Select top '+@n+' Salary from EmployeeDetail Order By Salary desc
    )AS tb Order BY Salary;');
END;
Go
exec SP__Q9 @n=2
```

	Salary
1	600000.00

10. Get employee name, project name order by firstname from "EmployeeDetail" and "ProjectDetail" for those employee which have assigned project already.

```
Create PROC SP__Q10
AS
BEGIN
    Select FirstName,ProjectName
    From EmployeeDetail join ProjectDetail
    on EmployeeID=EmployeeDetailID
    Order By FirstName
END;
Go
exec SP__Q10
```

	FirstName	ProjectName
1	Ashish	Task Track
2	Ashish	GRS
3	Ashish	DDS
4	Nikhil	HR Managment
5	nikita	HR Managment
6	Vikas	Task Track
7	Vikas	CLP
8	Vikas	Survey Managment

11. Get employee name, project name order by firstname from "EmployeeDetail" and "ProjectDetail" for those employee even they have not assigned project.

```
Create PROC SP__Q11
AS
BEGIN
    Select FirstName,ProjectName
    From EmployeeDetail left join ProjectDetail
    on EmployeeID=EmployeeDetailID
    Order By FirstName
END;
Go
exec SP__Q11
```

	FirstName	ProjectName
1	anish	NULL
2	Ashish	Task Track
3	Ashish	GRS
4	Ashish	DDS
5	Nikhil	HR Managment
6	nikita	HR Managment
7	Vikas	Task Track
8	Vikas	CLP
9	Vikas	Survey Managment

12. Get employee name, project name order by firstname from "EmployeeDetail" and "ProjectDetail" for all employee if project not assigned then display "-No Project Assigned".

```
Create PROC SP__Q12
AS
BEGIN
    Select FirstName,
    ISNULL(ProjectName, '-No Project Assigned') AS ProjectName
    From EmployeeDetail left join ProjectDetail
    on EmployeeID=EmployeeDetailID
    Order By FirstName
END;
Go
exec SP__Q12
```

	FirstName	ProjectName
1	anish	-No Project Assigned
2	Ashish	Task Track
3	Ashish	GRS
4	Ashish	DDS
5	Nikhil	HR Managment
6	nikita	HR Managment
7	Vikas	Task Track
8	Vikas	CLP
9	Vikas	Survey Managment

13. Get all project name even they have not matching any employeeid in left table order by firstname from employeeDetail and ProjectDetail

```
Create PROC SP__Q13
AS
BEGIN
    Select FirstName,ProjectName
    From EmployeeDetail right join ProjectDetail
    on EmployeeID=EmployeeDetailID
    Order By FirstName
END;
Go
exec SP__Q13
```

	FirstName	ProjectName
1	Ashish	Task Track
2	Ashish	GRS
3	Ashish	DDS
4	Nikhil	HR Managment
5	nikita	HR Managment
6	Vikas	Task Track
7	Vikas	CLP
8	Vikas	Survey Managment

14. Write down the query to find out the employee name who has not assigned any project, and display "-No Project Assigned"

```
Create PROC SP__Q14
AS
BEGIN
    Select FirstName,
           ISNULL(ProjectName, '-No Project Assigned') AS ProjectName
    From EmployeeDetail left join ProjectDetail
    on EmployeeID=EmployeeDetailID
    Where ProjectName IS NULL
END;
Go
exec SP__Q14
```

	FirstName	ProjectName
1	anish	-No Project Assigned

15. Write down the query to fetch ProjectName on which more than one employee are working along with EmployeeName

```
Create PROC SP__Q15
@emp_count int
AS
BEGIN
    Select FirstName, ProjectName
    From EmployeeDetail join ProjectDetail
    on EmployeeID=EmployeeDetailID
    Where ProjectName IN(
        Select ProjectName From ProjectDetail
        Group By ProjectName
        Having Count(*) > @emp_count
    )
END;
Go
exec SP__Q15 1
```

	FirstName	ProjectName
1	Vikas	Task Track
2	nikita	HR Managment
3	Ashish	Task Track
4	Nikhil	HR Managment

16. Write down the query to get Department and total salary in asending order according to salary

```
Create PROC SP__Q16
AS
BEGIN
    Select department, sum(salary)
    From EmployeeDetail
    Group By Department
    Order BY sum(salary)
END;
Go
exec SP__Q16
```

	department	(No column name)
1	Payroll	500000.00
2	HR	1010000.00
3	IT	1600000.00

17. Write down the query to get Department and max salary in asending order according to salary

```
Create PROC SP__Q17
AS
BEGIN
    Select department, max(salary)
    From EmployeeDetail
    Group By Department
    Order BY max(salary)
END;
Go
exec SP__Q17
```

	department	(No column name)
1	Payroll	500000.00
2	HR	530000.00
3	IT	1000000.00

18. Write down the query to fetch project name assign to more than one employee

```
Create PROC SP__Q18
@emp_count int
AS
BEGIN
    Select ProjectName From ProjectDetail
    Group By ProjectName
    Having Count(*) > @emp_count
END;
Go
exec SP__Q18 1
```

	ProjectName
1	HR Managment
2	Task Track

19. Write down the query to fetch project name and employee name assign to more than one project

```
Create PROC SP__Q19
@project_count int
AS
BEGIN
    Select FirstName,ProjectName
    From EmployeeDetail join ProjectDetail
    on EmployeeID=EmployeeDetailID
    Where EmployeeID IN(
        Select EmployeeDetailID From ProjectDetail
        Group By EmployeeDetailID
        Having Count(*) > @project_count
    )
END;
Go
exec SP__Q19 1
```

	FirstName	ProjectName
1	Vikas	Task Track
2	Vikas	CLP
3	Vikas	Survey Managment
4	Ashish	Task Track
5	Ashish	GRS
6	Ashish	DDS

20. Write the query to get the department, total no. of employees, total salary with respect to department from employeeDetail table

```
create PROC SP__Q20
AS
BEGIN
    Select department,count(*) [count],sum(salary) [salary]
    From EmployeeDetail
    Group By Department
END;
Go
exec SP__Q20
```

	department	count	salary
1	HR	2	1010000.00
2	IT	2	1600000.00
3	Payroll	1	500000.00